Decomposition is the process of identifying smaller, more easily solved subproblems within a larger, more complex problems.

**Decomposition Methods**

- **Analysis** is the process of breaking a problem into parts.
- **Synthesis** is the process of combining the solutions to small subproblems to solve the larger problem.
- **Parallelization** refers to subproblems that can be solved simultaneously.
- **Sequential** refers to subproblems that must be solved in a certain order.

"If you can't solve a problem, then there is an easier problem you can solve: find it."

- George Pólya

**Examples of Decomposition**

- Solving a crime
- Writing/playing music
- Creating an app
- Writing a paper
- Analyzing poetry

**Access the Course:** Problem Solving through Computational Thinking for Educators

**Access this Module:** Decomposition